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S. Benhenda, J.M. Guglielmacci, M. Gillet, L. Hultman and J.-E. Sundgren, Effect of substrate bias on the protective properties of TiN films grown by reactive magnetron sputtering onto Cu substrates 40 (1989) 121

Organic substances

A. Hatta, S. Suzuki and W. Suëtaka, Polarization-modulation electronic absorption study of copper phthalocyanine films on silver by surface plasmon resonance spectroscopy 40 (1989) 9
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J.A. Kelber, Electron stimulated desorption of CH_3OH and $(CH_3)_2NH$ from partially oxidized copper 40 (1989) 129
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S.C. Tjong and J.B. Malherbe, AES characterization of the oxides formed on the Fe–40Cr–Pd and Pd-implanted Fe–40Cr alloys at 500°C 40 (1989) 1
R. Izquierdo, E. Sacher and A. Yelon, X-ray photoelectron spectra of antimony oxides 40 (1989) 175
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L.M. Carballo, T. Hahn and H.-G. Lintz, The low-pressure reaction of carbon monoxide with nitrogen monoxide in the presence of oxygen on polycrystalline platinum, palladium and rhodium. I. Binary mixtures of reactants 40 (1989) 53
T. Hahn and H.-G. Lintz, The low-pressure reaction of carbon monoxide with nitrogen monoxide in the presence of oxygen on polycrystalline platinum, palladium and rhodium. II. Intrinsic selectivities 40 (1989) 59
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A.A. Galuska, Ion-enhanced adhesion of Ni films on glassy carbon. II. $^{84}Kr^+$ implantation 40 (1989) 33
A.A. Galuska, Ion-enhanced adhesion of Ni films on glassy carbon. III. Si intermediate layer and $^{84}Kr^+$ implantation 40 (1989) 41
J.L. Chartier, M. Plantard, A. Serrari, R. Le Bihan, S. Rigo and J.L. Ledys, Thermal nitridation of silicon dioxide at atmospheric pressure. Physicochemical and electrical characterization 40 (1989) 65
I. Jirka and J. Dubský, Interaction of copper with oxygen on amorphous carbon surface 40 (1989) 135
R. Izquierdo, E. Sacher and A. Yelon, X-ray photoelectron spectra of antimony oxides 40 (1989) 175

P.V. Kotvis and W.T. Tysoe, The surface chemistry of chlorinated hydrocarbon lubrication additives 40 (1989) 213
D.L. Cocke, R. Campbell, K. Balke, M. Owens and R.B. Wright, The surface reactivity of $NbNi_3$ and Nb_2Ni_3 alloys toward oxygen and its role in modeling catalysts 40 (1989) 227
I. Rodriguez-Ramos, A. Guerrero-Ruiz and J.L.G. Fierro, Effect of oxide promoters on the surface characteristics of carbon-supported Co and Ru catalysts 40 (1989) 239
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Platinum

L.M. Carballo, T. Hahn and H.-G. Lintz, The low-pressure reaction of carbon monoxide with nitrogen monoxide in the presence of oxygen on polycrystalline platinum, palladium and rhodium. I. Binary mixtures of reactants 40 (1989) 53
T. Hahn and H.-G. Lintz, The low-pressure reaction of carbon monoxide with nitrogen monoxide in the presence of oxygen on polycrystalline platinum, palladium and rhodium. II. Intrinsic selectivities 40 (1989) 59

Rhodium

L.M. Carballo, T. Hahn and H.-G. Lintz, The low-pressure reaction of carbon monoxide with nitrogen monoxide in the presence of oxygen on polycrystalline platinum, palladium and rhodium. I. Binary mixtures of reactants 40 (1989) 53
T. Hahn and H.-G. Lintz, The low-pressure reaction of carbon monoxide with nitrogen monoxide in the presence of oxygen on polycrystalline platinum, palladium and rhodium. II. Intrinsic selectivities 40 (1989) 59

Ruthenium

I. Rodriguez-Ramos, A. Guerrero-Ruiz and J.L.G. Fierro, Effect of oxide promoters on the surface characteristics of carbon-supported Co and Ru catalysts 40 (1989) 239

Secondary ion mass spectroscopy

J.H. Wandass, R.L. Schmitt and J.A. Gardella, Jr., Secondary ion formation from Langmuir–Blodgett films: studies of positive molecular ions 40 (1989) 85
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J.M.M. de Nijs and A. van Silfhout, The Ti/c-Si solid state reaction. I. An ellipsometrical study 40 (1990) 333
J.M.M. de Nijs and A. van Silfhout, The Ti/c-Si solid state reaction. II. Additional measurements by means of RBS, XPS and AES 40 (1990) 349
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W.D. Roos, J. du Plessis and G.N. van Wyk, Diffusion of silicon in Fe-based amorphous and crystalline alloys 40 (1990) 303

Silicon nitride

J.L. Chartier, M. Plantard, A. Serrari, R. Le Bihan, S. Rigo and J.L. Ledys, Thermal nitridation of silicon dioxide at atmospheric pressure. Physicochemical and electrical characterization 40 (1989) 65

Yu Yuehui, Liu Xianghuai, Fang Ziwei and Zou Shichang, Optical properties and microstructure of silicon nitride film synthesized by ion beam enhanced deposition 40 (1989) 145

Silicon oxide

J.L. Chartier, M. Plantard, A. Serrari, R. Le Bihan, S. Rigo and J.L. Ledys, Thermal nitridation of silicon dioxide at atmospheric pressure. Physicochemical and electrical characterization 40 (1989) 65
S.K. Jo, T. Jin and J.M. White, Growth and chemical properties of a silica overlayer derived from $Si(OC_2H_5)_4$ on ZnO 40 (1989) 155
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Sputter deposition

S. Benhenda, J.M. Guglielmacci, M. Gillet, L. Hultman and J.-E. Sundgren, Effect of substrate bias on the protective properties of TiN films grown by reactive magnetron sputtering onto Cu substrates 40 (1989) 121

Steel

S. Chesters, H.Y. Wen, M. Lundin and G. Kasper, Fractal-based characterization of surface texture 40 (1989) 185
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G.A. Haas, R.E. Thomas, C.R.K. Marrian and A. Shih, Surface characterization of BaO on W. II. Impregnated cathodes 40 (1989) 277
T. Mallát, S. Szabó and J. Petró, Phase structure of carbon supported palladium–copper catalysts 40 (1990) 309

Surface morphology

O. Jusko, P. Marienhoff and M. Henzler, Regular step arrays at the SiO_2/Si(111) interface 40 (1990) 295

Surface plasmons

A. Hatta, S. Suzuki and W. Suëtaka, Polarization-modulation electronic absorption study of copper phthalocyanine films on silver by surface plasmon resonance spectroscopy 40 (1989) 9

Surface roughness

S. Chesters, H.Y. Wen, M. Lundin and G. Kasper, Fractal-based characterization of surface texture 40 (1989) 185

Surface segregation

N.C. Jain and L. Kumar, Surface segregation studies in iron–cobalt alloys by Auger electron spectroscopy 40 (1989) 223
W.D. Roos, J. du Plessis and G.N. van Wyk, Diffusion of silicon in Fe-based amorphous and crystalline alloys 40 (1990) 303

Thermal desorption

S.K. Jo, T. Jin and J.M. White, Growth and chemical properties of a silica overlayer derived from $Si(OC_2H_5)_4$ on ZnO 40 (1989) 155
I. Rodriguez-Ramos, A. Guerrero-Ruiz and J.L.G. Fierro, Effect of oxide promoters on the surface characteristics of carbon-supported Co and Ru catalysts 40 (1989) 239

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G. Sberveglieri, G. Coccoli, P. Benussi, S. Groppelli and P. Nelli, Electrical studies on oxygen ionosorption at ambient pressure on SnO_2(In) thin films 40 (1989) 169

Titanium

J.P. Ponpon and A. Saulnier, Growth kinetics of titanium silicide during heating by RTA and furnace annealing 40 (1990) 315

J.M.M. de Nijs and A. van Silfhout, The Ti/c-Si solid state reaction. II. Additional measurements by means of RBS, XPS and AES 40 (1990) 349

Tribology

H. Zaidi, A. Mezin, M. Nivoit and J. Lepage, The influence of the environment on the friction and wear of graphitic carbons. I. Action of atomic hydrogen 40 (1989) 103

P.V. Kotvis and W.T. Tysoe, The surface chemistry of chlorinated hydrocarbon lubrication additives 40 (1989) 213

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G.H.M. Gubbels, L.R. Wolff and R. Metselaar, A WF_6-CVD tungsten film as an emitter for a thermionic energy converter. II. Electron and Cs^+-ion emission from WF_6-CVD tungsten films 40 (1989) 201

G.A. Haas, R.E. Thomas, A. Shih and C.R.K. Marrian, Surface characterization of BaO on W. I. Deposited films 40 (1989) 265

G.A. Haas, R.E. Thomas, C.R.K. Marrian and A. Shih, Surface characterization of BaO on W. II. Impregnated cathodes 40 (1989) 277

B. Dev, Statistics of secondary electrons from W induced by He ions and atoms at 0°–90° incidence 40 (1990) 319

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G.H.M. Gubbels, L.R. Wolff and R. Metselaar, A WF_6-CVD tungsten film as an emitter for a thermionic energy converter. II. Electron and Cs^+-ion emission from WF_6-CVD tungsten films 40 (1989) 201

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A. Szabo, Z. Paál, A. Szász, J. Kojnok and D.J. Fabian, Surface composition of Pt–Pd alloys treated in hydrogen 40 (1989) 77

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A.F. Carley, M.W. Roberts and S. Yan, The influence of pre-oxidation on the adsorption of CO at a Zn(0001) surface: characterisation of a weakly chemisorbed species by XPS and UPS 40 (1990) 289